

Sub B1
cont.

Cp is a substituted [or unsubstituted] cyclopentadienyl or a substituted or unsubstituted cycloalkadienyl group other than cyclopentadienyl or a related cycloalkadienyl cogener, each Q is independently an anionic leaving group,

A
cont.

J is a [group] Group 15, 16 or 17 atom,

a is the oxidation state of D,

D is a [group] Group 4, 5 or 6 metal, provided however that when Cp is a mono-cyclic unsubstituted cyclopentadienyl group, M is not titanium, and

Y is a heteroatom, a substituted heteroatom or a C₁ to C₁₀₀ hydrocarbyl group [which] that may optionally contain one or more heteroatom(s) [heteroatoms].

Claim 2 (Once Amended) The process of claim 1 wherein Cp is a substituted cyclopentadienyl group.

A

Claim 6 (Once Amended) The process of claim 1 wherein D is a [group four] Group 4 metal.

Q3 Sub B3

Claim 9 (Once Amended) The process of claim 1 wherein Y is a substituted or unsubstituted [group] Group 13 - 17 heteroatom or a C₁ to C₄₀ alkyl, alkynyl, aryl, or arylalkyl group.

A4

Claim 16 (Once Amended) The process of claim 1 wherein the process [occurs in the] is a gas phase process.

A4

Claim 17 (Once Amended) The process of claim 1 wherein the process [occurs in the] is a slurry phase process.

Sub B4

Claim 18 (Once Amended) A composition comprising an activator and a catalyst precursor represented by the formula:



wherein: